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uosus, gracilis inferne nudus, superne laxe foliosus. Folia caulina perichætaliaque siccitate crispato-inflexa, humiditate erecto patentia, lineari-lanceolata acuminata, concava margine argute serrata, basi dilatata subamplectente ciliata, cellulis subquadratis superne rotundatis obscuris areolata; costa percurrente lamellis serratis 4–8 dorso convexo. Capsula in pedicello brevi vix semipollicari crassiusculo recto ovato-cylindrica brevis vel ore dilatato turbinata.

Patria Alaska, A. Kellogg legit.

A very interesting slender dark colored species, quite distinct, with narrow crisped leaves, and 6 to 8 long flexuose cilia on each margin near the sheathing base, the lamellæ of the costa serrate. The capsule is very short ovate with a wide mouth; the peristome and operculum wanting, a loose calyptra of the genus was found. The plant was intermingled with a variety of *Pogonatum contortum*.

2. *Dicranodontium nitidum*, *n. sp.*—Laxe cæspitosum, cæspites molles, inferne pallide rufescentes, superne pallide viridi sericei. Plantæ graciles, simplices vel superne parce divisæ sola basi radicantes. Folia inferiora minora e basi lanceolata brevi subulata superiora e basi ovali-oblonga multo longiora in subulam longam crassam caniculatam denticulatam, dorso rugosam exeuntia, costa dilatata mediam partem basis occupante subulam que totam efformante. Anguli basiales concavi eorundem reti hexagono-quadrati, pellucidi, superiores angusti equilaterales longiores.

Hab. on rocks at Dixville Notch, New Hampshire, *James*.

This new species well characterized by its reticulation, its strong broad nerve which fills the whole point from its base, and by the long rugose or papillose point denticulate on the back and dentate on the border. The leaves are generally somewhat falcate curved or secund at the base of the stems, erect open or even falcate and undulate at the top of the plants when moistened. The point of the leaves is not quite as long as that of *Dicranodontium longirostre*, but the nerve is thicker, broader, occupying the whole point and nearly one-half of the base of the leaves. The whole plant presents a beautiful shining lustre.

§ 28. **Publications Received.**—*A Sketch of the Natural History of the Diatomaceæ*, by A. Mead Edwards, M. D., Microscopist to the Geological Survey of New Hampshire, pp. 416–505. Concord, N. H., 1874. This is a separate issue of a chapter of the State survey. It is a disputed point whether the Diatomaceæ belong to the vegetable kingdom; our author inclines with Hæckel to separate them under the name of Protista. They are, however, usually considered as vegetables, and as such come under the botanist's observation. This sketch is intended as a popular introduction to the study while scientifically correct. It consists of eight parts; relating to the general character, movements, modes of growth and reproduction, modes of occurrence, geological relations, and directions for collecting and studying. There are three Albert-type plates from the author's own drawings. The remarks on the occurrence of Diatoms in guano and the sedimentary deposits of the Western basins and canons are of general interest. The author has

a few copies to dispose of at \$4 apiece. His address is 120 Belleville Avenue, Newark, N. J.—2. *Botanical Contributions*, by Asa Gray, from Proc. Am. Acad. Arts & Sci., Vol. X., April, 1875. Conspectus of the North American Hydrophyllaceæ. We notice that *Ellisia ambigua*, Nutt., is now decided to be a slender form of *E. Nyctelea*, L.—3. *Contributions to American Botany*, V., by Sereno Watson, from Proc. Am. Acad. Arts & Sci., Vol. X., April, 1875. Revision of the Genus *Ceanothus*, and Description of New Plants, with a synopsis of the Western Species of *Silene*.—4. *Transactions of the Massachusetts Horticultural Society*, for the year 1874, Part II.—5. *First Annual Report of the Geological and Agricultural Survey of Texas*, by S. B. Buckley, State Geologist.—6. *Psyche*, January—April, 1875.—7. *The Naturalist Advertiser*, January, 1875; free by mail to all applicants, Naturalist's Agency, Salem, Mass. Contains 52 pages of titles of works, journals, and papers, in all departments of natural history.—8. *The American Naturalist*, May, 1875. The botanist will always find matter of interest in the pages of this well deserving monthly. The present No. contains: *The law of embryonic development the same in plants as in animals*, by T. A. Lapham, LL.D.; *The fertilization of certain flowers through insect agency*, by Thomas G. Gentry; *Botanical observations in Southern Utah*, No. 4, by Dr. C. C. Parry: the present is a list of the collection of plants made in 1874. There are also some other short botanical notes.—9. *American Garden*, Jan.—May, well sustains its character, and is full of entertaining and instructive reading. The white-berried *Mitchella repens* was found by a lady in Canaan, Ct. in 1872. BULL. III., 43.—10. The St Louis Democrat, Mch. 6th, 1875, contains a full report of Dr. George Engelmann's able lecture on *The Forests of the Rocky Mountains*.—11. *Ferns a Specialty*, A. B. Gilbert's priced Catalogue of native and exotic Ferns in cultivation, Hancock St., Cambridgeport, Mass. 12. *Harvard University. Summer instruction in Chemistry, Botany, and Geology*, for 1875. Intended for teachers and other adults. A synopsis of the course in Botany will be forwarded upon application to Prof. G. L. Goodale, Cambridge, Mass. Application for places in the laboratory should be made before June 1st. A second course in Cryptogamic Botany by Prof. Farlow will be given at some locality on the seashore not at present determined. A knowledge of phænogams is *indispensable* for those taking this course. Apply on or before June 1st to Prof. W. G. Farlow, Botanic Garden, Cambridge. The fee for each course is \$25 in advance. Each course will begin July 8th, and continue six weeks. As Harvard is making Botany a condition of entrance, she does well to provide instruction for teachers.

§ 29. *Sandwich Island Ferns*.—Mrs. J. M. Whitney, 753, Logan street, Cleveland, Ohio, writes that she has a large assortment of Sandwich Island ferns to dispose of, with about ten varieties from the Yo Semite. The former were named for her by Mr. Lidgate, the compiler of a list of the Island ferns, which she has had printed here, and offers for sale at 25 cts. Mrs. Whitney holds her ferns at perhaps a rather high rate, but is willing to make terms.